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This listing of claims replaces all prior versions, and listings of claims in the application:

## LISTING OF THE CLAIMS

- 1. (Canceled)
- 2. (Previously Presented) A magazine-based data cartridge library comprising: a frame; a shelf system, operatively attached to said frame, for supporting at least two data cartridge magazines and comprising at least one shelf; a cartridge transport device, operatively attached to said frame, for moving a data cartridge between one of said data cartridge magazines and a drive; a magazine transport device, operatively attached to said frame, for moving one of said data cartridge magazines; and a drive bay assembly for holding said drive wherein; said drive bay assembly further comprises; a housing structure that defines a first open side which is exposed to said cartridge transport device, a second open side which is exposed to a space that is operator accessible, and a passageway extending between said first and second open sides; a housing plug that is attached to said housing and faces said second open side; and a sled for holding said drive that has a front side with a receptacle for receiving said data cartridge and a back side with a plug interface for receiving electrical signals; said sled comprising: a sled frame that extends from a first end to a second end and is capable of holding said drive such that the receptacle of said drive is adjacent to said first end and the plug interface of the drive is adjacent to said second end; and electrical connection means for establishing an electrical connection between the plug interface of said drive and a sled plug that faces toward said first end of said sled and is capable of mating with said housing plug; wherein when said sled is positioned in said passageway such that said first end of said frame is adjacent to said first open side and said second end of said frame is adjacent to said second open side, said housing plug faces said sled plug.
- 3. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 2, wherein: said housing comprising a mounting flange for interfacing with a mounting structure.

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4. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 2, further comprising: a door assembly that is attached to said housing and moveable between a closed position that blocks said passageway when said sled is not positioned in said passageway and an open position when said sled is positioned in said passageway.

- 5. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 2, wherein: said sled frame comprising a casing that defines an interior space for accommodating said drive and an opening for exposing the receptacle of said drive when said drive is located in said interior space.
- 6. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 5, wherein: said electrical connection means comprises a device plug, located within said interior space defined by said casing, for mating with the plug interface of said drive.
- 7. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 5, wherein: said sled comprises a fan for moving air from said interior space of said casing to an environment that is exterior to said casing.
- 8. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 2, wherein: said sled being able to hold two, half-height drives.
- 9. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 2, wherein: said drive bay assembly comprising: a first guide structure associated with said housing; and a second guide structure associated with said sled; wherein said first and second guides structures cooperate during insertion of said sled into said passageway through said second open side of said housing to orient said frame such that said first end of said frame is adjacent to said first open side of said housing, said second end of said frame is adjacent to said second open side of said housing, and said sled plug is substantially aligned with said housing plug.
- 10. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

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2, wherein: said electrical connection means comprises a first plug and a second plug.

11. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

10, wherein: said first plug for conveying a power signal and said second plug for

conveying data that is to be written on a medium located in said data cartridge and/or data

that has been read from said medium located in said data cartridge.

12. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

10, wherein: said first plug for conveying data that is to be written to or read from a first

recording medium located in a first data cartridge by a first half-height drive; and said

second plug for conveying data that is to be written to or read from a second recording

medium located in a second data cartridge by a second half-height drive.

13. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

12, wherein: said electrical connection means comprising a third plug means for conveying

power signals to said two half-height drives.

14. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

2, wherein: said sled frame comprising mounting means for use in attaching said drive to

said sled.

15. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

14, wherein: said mounting means comprising means for use in attaching two half-height

drive devices to said sled.

16. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

14, wherein: said mounting means capable of accommodating a first drive with a first

mounting interface or a second drive with a second mounting interface that is different than

said first mounting interface.

17. (Previously Presented) The magazine-based data cartridge library, as claimed in claim

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- 2, wherein: said sled comprising a handle for facilitating insertion and removal of said sled from said passageway of said housing by said operator.
- 18. (Previously Presented) A magazine-based data cartridge library comprising: a frame; a shelf system, operatively attached to said frame, for supporting at least two data cartridge magazines and comprising at least one shelf; a cartridge transport device, operatively attached to said frame, for moving a data cartridge between one of said data cartridge magazines and a drive; a magazine transport device, operatively attached to said frame, for moving one of said data cartridge magazines; and a drive bay assembly for holding said drive wherein: said drive bay assembly further comprises: a housing structure that defines a first open side which is exposed to said cartridge transport device, a second open side which is exposed to a space that is operator accessible, and a plurality of drive bays, each extending between said first and second open sides; a plurality of housing plugs that are each attached to said housing and face said second open side; wherein one of said plurality of plugs is associated with each of said plurality of drive bays; a plurality of sleds, each capable of holding said drive that has a front side with a receptacle for receiving said data cartridge and a back side with a plug interface for receiving electrical signals; wherein each of said plurality of sleds comprising an electrical connection means for establishing an electrical connection between the plug interface of said drive and a sled plug that is capable of mating with one of said plurality of housing plugs.
- 19. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 18, wherein: said drive bay assembly comprising a processor, attached to said housing, for distributing electrical signals to each of said plurality of housing plugs.
- 20. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 19, wherein: said housing comprising a processor bay for holding said processor and having an opening that is exposed to said space that is operator accessible.
- 21. (Previously Presented) The magazine-based data cartridge library, as claimed in claim 20, wherein: said processor comprising a handle for facilitating insertion/removal of a

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portion of said processor through said opening.

22. (Previously Presented) A magazine-based data cartridge library comprising: a frame; a shelf system, operatively attached to said frame, for supporting at least two data cartridge magazines; a cartridge transport device, operatively attached to said frame, for moving a data cartridge between one of said data cartridge magazines and a drive; a magazine transport device, operatively attached to said frame, for moving one of said data cartridge magazines; and a drive bay assembly for accommodating said drive, said drive bay assembly comprising a first open side exposed to said cartridge transport device, a second open side exposed to a space that is operator accessible and a passageway extending between said first and second open sides.